



DESIGNERS CDM NOTE - RESIDUAL RISKS IDENTIFIED

The design Engineer(s) have analysed this design as the scheme has been developed, in order to identify if there are any significant residual risk hazards (i.e. unusual, unexpected, abnormal or difficult).

Residual risks **HAVE** been identified and are therefore shown on this drawing. These risks have not been possible to remove by design.

This statement assumes that a competent Contractor with the appropriate qualified staff will be employed for the works, and that they will be familiar with site wide construction risks and hazards that they can reasonably be expected to encounter as part of their work.

BURIED UTILITIES RISK NOTE

- Buried utilities are present on and in the vicinity of the site.
- The Contractor must satisfy themselves that they have seen utility returns for the area and that appropriate Risk Assessment Method Statement (RAMS) are in place and implemented to ensure that buried and/or overhead services are located prior to any works taking place.
- Any RAMS shall address safe procedures for protection and working in the proximity of services.

Drainage Strategy

Foul Drainage

Gravity system discharging into the adjacent watercourse via a package treatment plant subject to a section 23 and environment agency permit.

Surface Water Drainage

The run-off from the dwellings will be discharged into permeable paving where they will infiltrate into the groundwater at a rate of 1.53x10⁻³m/s

For the main access road, it is proposed to use dry swales to collect the runoff and discharge into the ground water via infiltration at a rate of 1.53x10⁻³m/s.

CDM RESIDUAL RISK ITEM

Contact with waste water when making drainage connections.

Risk of infection from Weils disease etc.

Survey: 109720
Site Plan: 2105 - Proposed Site Plan 210825 base[2].dwg
Rec'd: 01.04.2021
Rec'd: 25.08.2021

NOTES

- All dimensions and levels are in metres unless otherwise noted
- This drawing is to be read in conjunction with the relevant Architect's/Engineer's drawings, specifications and CDM documentation
- This drawings has been produced electronically and may have been photo reduced or enlarged when copied. Work to figured dimensions only (DO NOT SCALE). All dimensions to be checked on site. Any errors or omissions to be reported to the engineer immediately.
- This drawing contains coloured lines / information that may not be clear if reproduced in black and white.
- Digital copies of this plan can only be considered accurate if supplied directly by Infrastruct CS Ltd.

Drainage Key

Sewers

- Foul water drain (private/non adoptable)
- Surface water drain (private/non adoptable)
- Foul water sewer (Adoptable)
- Surface water sewer (Adoptable)

Chamber Key

FW/SW

- Mini access chamber (mac) - 300mmØ
- PPIC - 475mmØ*
- P.C.C. units/brick*
- Mantle
- Depth: 1.25m to 1.5m*
- Depth: 1.55m to 3.0m*

* General note
(Refer to standard details & longitudinal sections for chamber sizes. Size may need to increase dependant on number of incoming pipes/sizes of incoming pipes)

- Surface water rodding eye
- Rain water down pipe (roddable access)
- Silt Trap (ST) with removable silt bucket
- Road gully (trapped) D400
- Cellular storage (refer to drawing for sizes)
- RWP cellular discharge/collection unit (DU) (Permavoid or similar)
- Headwall
- Tree root protection zone (RPZ)
- Impermeable barrier to stop lateral movement of water
- Baffle to prevent rapid through flow of water through permeable paving
- Finished Floor Level (FFL)
- Block paving - permeable
- Block paving - Reduced dig (permeable)
- Flood exceedance routing
- Swale
- Dry Swale
- Block Paving - Non-permeable

DESIGN NOTE

SuDS features sized for a 1 in 100 year event + 40% Climate Change

DESIGN NOTE

Soakage rate of 1.53x10⁻³m/s used for design purposes. Taken from site investigation report Ref 2015Apr_CAM1365_DSGI undertaken on site by T&P Regen February 2015

DESIGN NOTE

CBR values range between 0.3% and 2.1%, depending on the depth. Further in situ testing to confirm once formation levels are confirmed.

P03	APL	AJG	New Site Layout	01/08/21
P02	APL	AJG	New site layout	25/05/21
P01	APL	AJG	Initial issue	25/05/21
REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE

DRAWING TITLE: Drainage Strategy
SHEET NO.: 1/1

PROJECT: Letchmere Green Upper Heyford Oxon

CLIENT: **PYE** and **Infrastruct CS Ltd**

SCALE @ A1: 1:500

PROJECT NUMBER: 4388

STATUS: S2

ISSUE PURPOSE: INFORMATION

PROJECT ORIGIN: LETCH ICS

PHASE: 01

LEVEL: XX

TYPE: DR

ROLE: C

NO.: 0001

REVISION: P03

NOT FOR CONSTRUCTION
FOR PLANNING PURPOSES ONLY

4388 LETCH ICS 01 XX A2 C 0200_Drainage Design